

### **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application. Where claims have been amended and/or canceled, such amendments and/or cancellations are done without prejudice and/or waiver and/or disclaimer to the claimed and/or disclosed subject matter, and Applicants reserve the right to claim this subject matter and/or other disclosed subject matter in a continuing application.

1. (currently amended) A data storage subsystem, comprising:  
three data storage units;  
three check storage units; and  
an array controller coupled to the three data storage units and the three check storage units, the array controller determining the contents of the check storage units so that any three erasures of the data storage units and the check storage units can be corrected by the array controller, the array controller updating a block of data contained in any one of the data storage units and the check storage units using only six IO operations while determining the contents of the check storage units so that any three erasures of the data storage units and the check storage units can be corrected by the array controller.

2. (original) The data storage subsystem according to claim 1, wherein information is stored on the data storage subsystem as a symmetric Maximum Distance Separation code.

3. (previously presented) The data storage subsystem according to claim 2, wherein the Maximum Distance Separation code comprises a Winograd code.

4. (previously presented) The data storage subsystem according to claim 2, wherein the Maximum Distance Separation code comprises a Reed-Solomon code.

5. (previously presented) The data storage subsystem according to claim 2, wherein

the Maximum Distance Separation code comprises an EVENODD code.

6. (previously presented) The data storage subsystem according to claim 2, wherein the Maximum Distance Separation code comprises a derivative of an EVENODD code.

7. (canceled)

8. (currently amended) The data storage subsystem according to claim 1, wherein two of the IO operations are read operations and four of the IO operations are write operations.

9. (original) The data storage subsystem according to claim 7, wherein the read operations read data from the data storage units that are not being updated, and the four write operations write data to the data storage unit being updated and to the three check storage units.

10. (previously presented) The data storage subsystem according to claim 1, wherein failure of any three data storage units and check storage units can occur before data stored on the data storage subsystem is lost.

11. (original) The data storage subsystem according to claim 1, wherein data is recoverable from a partially readable storage unit.

12. (previously presented) The data storage subsystem according to claim 1, wherein the array controller can recover any data stored on the data storage subsystem when all three data storage units have failed.

13. (canceled)

14. (canceled)

15. (canceled)

16. (canceled)

17. (canceled)

18. (canceled)

19. (canceled)

20. (canceled)